

CLAIMS

1. A roller arrangement for booklet makers, comprising at least a first and a second pair of rotatable driven rollers, between which booklets are intended to pass successively for folding, whereby the said first pair of rollers comprises two
5 rollers that are arranged such that they can move towards and away from each other and having a spring loading towards each other, and where the second pair of rollers comprises two rollers with a mutual separation that can be adjusted, **characterised** in that mechanical means are arranged to, following the insertion of a booklet between the rollers of the first pair of rollers, automatically adjust the
10 mutual separation of the rollers of the second pair of rollers depending on the distance between the rollers of the first pair of rollers.
2. The arrangement according to claim 1, **characterised** in that the rollers are mounted in bearings such that they can rotate between two end pieces arranged at a distance from each other and that the said means comprises one
15 wedge element arranged at each end piece, which wedge pieces are arranged to move into the space between the rollers of the first pair of rollers when these are separated by a distance equivalent to the size of the space, and furthermore that the wedge element is arranged to adjust the distance between the rollers of the second pair of rollers depending on the said distance.
- 20 3. The arrangement according to claim 2, **characterised** in that the wedge elements offer a wedge-shaped end section, intended to be inserted between the rollers of the first pair of rollers when these are separated.
4. The arrangement according to either claim 2 or 3, **characterised** in that the rollers of the second pair of rollers are placed under spring tension in a
25 direction away from each other, whereby the said wedge elements are arranged to hold the rollers of the second pair of rollers, while overcoming the said spring tension, at a mutual separation that is determined by the said distance that the wedge element has been displaced as a response to the size of the separation of the rollers of the first pair of rollers.
- 30 5. The arrangement according to claim 4, **characterised** in that the wedge elements are arranged to be pressed by the spring force that influences the rollers of the second pair of rollers with their end section in between the rollers of the first pair of rollers, when these are separated.

6. The arrangement according to claim 4 or 5, **characterised** in that the rollers of the first pair of rollers are placed under an initial tension relative to each other with a force that is significantly greater than the spring force with which the rollers of the second pair of rollers are placed under tension relative to each other.

5 7. The arrangement according to claim 6, **characterised** in that the spring force that influences the rollers of the first pair of rollers is of the order of magnitude of 100 times greater than the spring force that influences the rollers of the second pair of rollers.

8. The arrangement according to any one of the preceding claims,
10 **characterised** in that the contact surfaces of the rollers with paper are of a material that has low friction relative to paper.

9. The arrangement according to claim 8, **characterised** in that the contact surfaces of the rollers against paper are of steel.

10. A roller arrangement for booklet makers, comprising at least a first and a
15 second pair of rotatably driven rollers, between which booklets are intended to pass successively for folding, whereby the said first pair of rollers comprises two rollers that are arranged such that they can move towards and away from each other and having a spring loading towards each other, and where the second pair of rollers comprises two rollers with a mutual separation that can be adjusted,
20 **characterised** in that at least one of the rollers of the second pair of rollers is constructed with at least one track around its circumference at the location at which staple clamps are intended to pass during the folding, and in that the track is covered by a ring of flexible material.

11. The arrangement according to claim 10, **characterised** in that the said
25 ring is a rotationally rolled ring of spring steel.

12. The arrangement according to claim 10, **characterised** in that the track is covered by a smooth, elastic plastic material.

13. The arrangement according to any one of the previous claims,
characterised in that at least one of the rollers of the first pair of rollers is
30 constructed with raised rings around its circumference, with which the booklet that is to be folded is intended to make contact.

14. The arrangement according to any one of the preceding claims, **characterised** in that a knife is arranged to insert the booklet that is to be folded between the rollers of the first pair of rollers during the separation of the rollers.